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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/770,509	01/	25/2001	Fumiaki Katagiri	NADII.018A	5860	
22847	7590	12/24/2003	EXAMINER			
SYNGENTA BIOTECHNOLOGY, INC.				VOGEL, NANCY T		
PATENT DI 3054 CORN			ART UNIT	PAPER NUMBER		
P.O. BOX 12257				1636		
RESEARCH TRIANGLE PARK, NC 27709-2257			709-2257	DATE MAILED: 12/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)	,				
Office Author Desamples			,509	KATAGIRI, FUMIAKI					
	Office Action Summary	Examin	ier	Art Unit					
		Nancy.		1636					
Period fo	The MAILING DATE of this commu or Reply	nication appears on t	the cover sheet	vith the correspondence address					
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (period for reply is specified above, the maximum s are to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the statutory period will apply and by will by statute cause the s	event, however, may statutory minimum of t d will expire SIX (6) Mo	a reply be timely filed hirty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
1)🖂	Responsive to communication(s) fil	led on <u>10/14/03</u> .							
2a)⊠	This action is FINAL.	2b)☐ This action is	non-final.						
3)	Since this application is in condition closed in accordance with the practice.	n for allowance exce tice under <i>Ex part</i> e	ept for formal ma Q <i>uayl</i> e, 1935 C	atters, prosecution as to the merits is D. 11, 453 O.G. 213.					
Disposit	ion of Claims	·							
4)⊠	☑ Claim(s) <u>1,2,9,10,12,13,20 and 21</u> is/are pending in the application.								
,	4a) Of the above claim(s) is/								
5)[🛛	Claim(s) <u>1,2,9 and 10</u> is/are allowed.								
6)🖂	Claim(s) <u>12,13,20 and 21</u> is/are rejected.								
	Claim(s) is/are objected to.								
8)[Claim(s) are subject to restr	iction and/or electio	n requirement.						
Applicat	tion Papers								
9)[The specification is objected to by t	he Examiner.							
10)□	The drawing(s) filed on is/are	e: a)⊡ accepted or	b) objected	o by the Examiner.					
	Applicant may not request that any obj	ection to the drawing(s) be held in abey	rance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including	ng the correction is red	uired if the drawi	ng(s) is objected to. See 37 CFR 1.121(d).					
	The oath or declaration is objected	to by the Examiner.	Note the attacr	led Office Action of John PTO-132.					
	under 35 U.S.C. §§ 119 and 120								
* 13)□ 14)□	since a specific reference was includence of 1.78. a) The translation of the foreign I Acknowledgment is made of a claim reference was included in the first se	ty documents have to documents have to documents have to so of the priority docutional Bureau (PCT loon for a list of the confor domestic prioritied in the first sente anguage provisional for domestic priorities.	peen received. Deen received in Deen received. Deen received in Deen received. Deen received in Deen receive	Application No en received in this National Stage ot received. C. § 119(e) (to a provisional application) fication or in an Application Data Sheet.					
Attachme			4) 🗀 Intervie	w Summary (PTO-413) Paper No(s)					
2) Not	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review ormation Disclosure Statement(s) (PTO-1449)			of Informal Patent Application (PTO-152)					

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DETAILED ACTION

This action is in response to applicant's amendment filed 10/14/03. Claims 1, 2, 9, 10, 12, 13, 20 and 21 are pending in the case.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 12, and by dependence claims 13, 17, 20 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

This rejection is maintained for reasons made of record set forth in Paper No. 20, mailed 6/30/03, at pages 7-8.

Applicants have argued in their response mailed 10/14/03, that the specification as filed and antimicrobial assays are know to those in the art to determine if an inhibitor of FtsZ-mt would have antimicrobial activity (page 5 of the response). While this is agreed with, it is noted that the claims are directed to a method of identifying an inhibitor of FtsZ-mt activity having antimicrobial activity, and no assay or guidance has been

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provided regarding how to identify an inhibitor of compacte FtsZ-mt activity. Applicants further argue that "[o]ne skilled in the art would know to test if a compound is an inhibitor if it prevents or retards the formation of the "ring" and cell division in compactes" (page 5 of the response). However, this information is not set forth in the specification, and it is maintained that the actual activity of the FtsZ-mt is unknown, making identification of inhibitors of its activity problematic. The specification at page 3 states that "The bacterial cell division protein Ftsz is a key component of the bacterial cell division machinery. Fusion constructs of Ftsz with green-fluorescent protein have shown that, at the onset of division, Ftsz forms a filamentous ring at the site of cell division, and disassembles after septation is complete. FtsZ can self-assemble into rafts of long filaments having curving edges, as well as into sheets and rings. A cytoskeletal role for Ftsz has been postulated based on its ability to undergo GTP-dependent polymerization in vitro and its similarity to tubulin." None of this information provides a definitive activity of FtsZ-mt, or a method for identifying an inhibitor of said activity. Therefore, it is maintained that the written description requirement has not been satisfied.

Claims 12, and by dependence, claims 13, 17, 20 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

This rejection is maintained for reasons made of record set forth in Paper No. 20, mailed 6/30/03, at pages 8-9.

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Applicants have argued in their response mailed 10/14/03, that the amendments to the claims to more particularly recite the use of SEQ ID NO:2 for use in the claimed methods, and that it would not require undue experimentation to use a described protein in a screening method (page 5 of the response). However, the amendments to the claims have not remedied the lack of guidance in the specification regarding how to practice the invention which requires the identification of inhibitors of the FtsZ activity. For the reasons made of record, it would require undue experimentation to determine methods of identifying said inhibitors. Therefore the rejection is maintained.

Claims 1, 2, 9, 10 are allowed.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy Vogel whose telephone number is (703) 308-4548. The examiner can normally be reached on 7:30 - 4:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Irem Yucel, Ph.D. can be reached on (703) 305-1998. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196. As of January 13, 2004, the examiner's phone number will be (571) 272-0780.

ntv

JAMES KETTER
PRIMARY FXAMINER